RESPONSE AND REQUEST FOR RECONSIDERATION

In response to the Office Action of July 18, 2006, Applicants hereby request the Examiner to reconsider the claims in view of the present amendments and remarks.

Applicants have amended independent claims 1 and 19 by specifying that the phosphite is defined as an alkyl phosphite rather than a hydrocarbyl phosphite as previously claimed. Support for this amendment is found in the specification on paragraph 18. This amendment serves to focus the claims on those specific phosphites that contain alkyl groups, rather than other, more broadly defined, hydrocarbyl groups.

Dependent claims 2 and 17 have been amended to specify that the phosphite definition is consistent with independent claims 1 and 19. Specifically, claims 2 and 17 specify the phosphite is an alkyl phosphite.

Applicants have added a new independent claim 23 and new dependent claims 24 and 25. Each of these claims is substantially the same as independent claim 1, except the alkyl phosphite is defined as "an alkyl phosphite, wherein the alkyl group contains 14 to 20 carbon atoms" or "12 to 30 carbon atoms." Support for the phosphite definition specifying the alkyl group contains 14 to 20 or 12 to 30 carbon atoms is found in paragraph 18 of the specification. No elements other than the nature and chain length of the alkyl groups have been amended.

Applicants submit that the amended claims are fully supported by the specification and do not add subject matter. Moreover, the claims as amended are novel and non-obvious over the cited prior art.

Applicants note with gratitude that the Examiner has withdrawn all objections and rejections, except those described in the office action dated July 18, 2006.

The Examiner, however, maintained that claims 1, 2, 4, 5, 8-10, 14 and 16-22 still failed to meet the requirements of 35 U.S.C. 103(a) over Sumiejski and Vinci et al. Further the Examiner maintained that claims 6, 7 and 15 still failed to meet the requirements of 35 U.S.C. 103(a) over Sumiejski and Vinci et al. and Tagliamonte.

The Examiner was of the position that the evidence supplied in the declaration by J. Sumiejski on May 1, 2006, was insufficient to establish unexpected or surprising results for the claimed invention. In particular, the data was deemed insufficient to rebut a prima facie case of obviousness since the data was believed to be not commensurate in scope with the claimed invention. Applicants respectfully traverse the Examiner's position.

Applicants submit that the experimental data provided in the declaration by Sumiejski is commensurate in scope with the invention as it is presently defined by the claims. In particular, Applicants presented data from an alkyl phosphite with a C14 alkyl group, as it provides a meaningful comparison of the lower limit of the present invention, presently set at C12, with the prior art. A person skilled in the art would expect that a C12-alkyl phosphite and the C14-alkyl phosphite actually tested would have similar performance because both alkyl chains have similar properties. As an example of this similarity, the

alcohols which correspond to these and longer alkyl chains are solids at around ambient temperature (about 23 °C). In contrast, alcohols with alkyl chains with 10 or fewer carbon atoms are typically liquids. The attached pages from the CRC Handbook of Chemistry and Physics, 75th Edition illustrates the melting points for decanol, dodecanol and tetradecanol. It will also be recognized that the longer chain alkyl groups share the property of increasing oil solubility, which is important for a composition designed for use as a lubricant.

It is therefore believed that properties of alkyl chains of 12 and more carbon atoms are sufficiently different from those in the reference, below 12, that the material having a C14 alkyl chain reasonably represents the class of materials with longer chain alkyl groups. As a consequence, while the declaration compared a C14-alkyl phosphite with the C6-alkyl phosphite of the reference, similar performance advantages would be expected from alkyl groups such as C12, or C14, or C16, C18, C20 or higher alkyl groups. Hence the invention example demonstrated in the declaration is commensurate with the scope of the alkyl phosphite of the invention as defined in claim 1, in terms of the nature and length of the alkyl groups.

The C14 test sample even more clearly supports the patentability of the narrower ranges of carbon atoms set forth in new claims 23, 24, and 25, and separate consideration for the subject matter of these claims is respectfully requested.

Accordingly, Applicants request the Examiner to find the experimental data provided to be commensurate with the scope of the independent claims and find all claims allowable.

With regard to the example presented in the declaration, the Examiner has further indicated that only one type of each component (b), (c) and (d) is exemplified. Applicants respectfully submit that further experimental exemplification of these components is not legally required. Components (b), (c), and (d), while required components of the lubricating composition, are only of secondary importance when considering the technical problem of reducing wear and shudder that is solved principally by component (a), i.e., the alkyl phosphite. And in order to determine whether an invention exhibits unexpected advantages over a prior art reference, it is only required to compare the claimed invention with the closest teaching of the prior art. The proper comparison of the prior art with a lubricating composition of the present invention is one that requires the fewest changes to the lubricating composition. This minimizes the number of variables altered and most clearly demonstrates the advantages of the invention. Applicants have closely reviewed the prior art and selected the closest explicit teaching (i.e., an example) to the present invention.

It is not legally necessary to compare variants of the claimed invention with hypothetical variations of the prior art that are not in fact disclosed. Thus, it is not required to test samples with variations of (b), (c), and (d) against modifications of the prior art in which (b), (c), and (d) are similarly varied. If Applicants were required to compare the present invention against such hypothetical, imagined, or reconstructed prior art compositions, it would not be a valid or useful or legally meaningful comparison. This is in part because

multiple variables would be changed, and in part because the comparison would no longer be against the actual prior art. Therefore, Applicants' obligation is to compare the invention only against the closest prior art and not against hypothetical, imagined, or reconstructed prior art. Accordingly, Applicants respectfully request the Examiner to withdraw objections of improper breadth of components (b), (c) and (d).

For the foregoing reasons it is submitted that the present claims are unobvious and in condition for allowance. The foregoing remarks are believed to be a full and complete response to the outstanding office action. Therefore an early and favorable reconsideration is respectfully requested. If the Examiner believes that only minor issues remain to be resolved, a telephone call to the Undersigned is suggested.

The number of claims, after amendment, is increased from the original 22 to 24. Please charge the fee for the additional 2 claims, believed to be 2 x $50 = $100.00, to deposit account 12-2275 (The Lubrizol Corporation). The number of independent claims is now 3, for which no additional fee is due. Any additional required fees, or any insufficiency or overpayment of fees, should be charged or credited to this same account.

Respectfully submitted,

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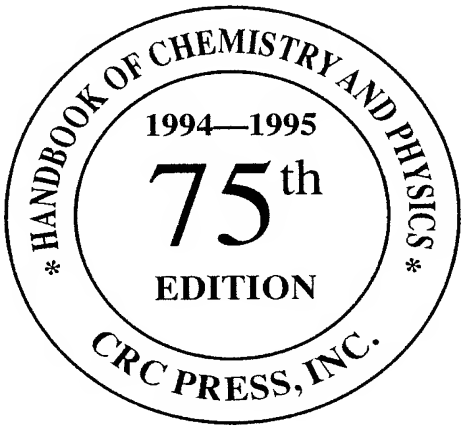
CRC Handbook of Chemistry and Physics

A Ready-Reference Book of Chemical and Physical Data



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No.	Name Synonym	Mol. Form. Mol. Wt.	CAS RN mp/°C	Merck No. bp/°C	Beil. Ref. den/g cm^{-3}	Solubility n_D
5066	Decanoic acid, methyl ester	$C_{11}H_{22}O_2$ 186.29	110-42-9 -18	224	4-02-00-01044 0.8730^{20}	H_2O 1; EtOH 4; eth 4; ctc 2 1.4259^{20}
5067	Decanoic acid, 1-methylethyl ester	$C_{13}H_{26}O_2$ 214.35	2311-59-3	121^{10}	4-02-00-01045 0.8543^{20}	1.4221^{25}
5068	Decanoic acid, 2-octyl-	$C_{18}H_{36}O_2$ 284.48	619-39-6 38.5	215^{13}	4-02-00-01254 0.8447^{70}	eth 4; EtOH 4
5069	Decanoic acid, propyl ester	$C_{13}H_{26}O_2$ 214.35	30673-60-0	128.5^{10}	4-02-00-01045 0.8623^{20}	1.4280^{20}
5070	1-Decanol Capric alcohol	$C_{10}H_{22}O$ 158.28	112-30-1 6.9	2847 231.1	4-01-00-01815 0.8297^{20}	H_2O 1; EtOH 5; eth 5; ace 5 1.4372^{20}
5071	2-Decanol, (±)- 2-Decanol (*DL*)	$C_{10}H_{22}O$ 158.28	74742-10-2 -2.4	211	4-01-00-01823 0.8250^{20}	EtOH 3; eth 5; ace 5; bz 3 1.4326^{25}
5072	4-Decanol 1-Propylheptyl alcohol	$C_{10}H_{22}O$ 158.28	2051-31-2 -11	210.5	4-01-00-01824 0.8261^{20}	H_2O 1; EtOH 3; ctc 3 1.4320^{20}
5073	1-Decanol, 10-chloro-	$C_{10}H_{21}ClO$ 192.73	51309-10-5 12.5	$185\text{-}9^{15}$	4-01-00-01821 0.9630^{25}	eth 4; EtOH 4 1.4578^{20}
5074	1-Decanol, 10-fluoro- 10-Fluoro-1-decanol	$C_{10}H_{21}FO$ 176.27	334-64-5 22	$136\text{-}7^{15}$	4-01-00-01821 0.919^{20}	eth 4; EtOH 4 1.4322^{25}
5075	2-Decanone Methyl octyl ketone	$C_{10}H_{20}O$ 156.27	693-54-9 14	$210; 96^{12}$	4-01-00-03367 0.8248^{20}	H_2O 1; EtOH 3; eth 3; ctc 2 1.4255^{20}
5076	3-Decanone Ethyl heptyl ketone	$C_{10}H_{20}O$ 156.27	928-80-3 2.5	203	4-01-00-03368 0.8251^{20}	EtOH 3; eth 3; ctc 3 1.4252^{20}
5077	4-Decanone Hexyl propyl ketone	$C_{10}H_{20}O$ 156.27	624-16-8 -9	206.5	4-01-00-03368 0.824^{20}	H_2O 1; EtOH 5; eth 5 1.4240^{21}
5078	Decanoyl chloride Caprinoyl chloride	$C_{10}H_{19}ClO$ 190.71	112-13-0 -34.5	95	4-02-00-01050 0.919^{25}	eth 3; ctc 3 1.4410^{20}
5079	Decasiloxane, docosamethyl- Decasiloxane, dicosamethyl	$C_{22}H_{68}O_9Si_{10}$ 755.62	556-70-7	$183.^4$	3-04-00-01881 0.925^{20}	bz 4; lig 4 1.3988^{20}
5080	2-Decenal	$C_{10}H_{18}O$ 154.25	3913-71-1	230	4-01-00-03511 0.845^{17}	1.4533^{17}
5081	3-Decenal	$C_{10}H_{18}O$ 154.25	58474-80-9	$93\text{-}4^{14}$	4-01-00-03512 0.850^{15}	1.4462^{15}
5082	1-Decene	$C_{10}H_{20}$ 140.27	872-05-9 -66.3	170.5	3-01-00-00858 0.7408^{20}	H_2O 1; EtOH 5; eth 5 1.4215^{20}
5083	4-Decene	$C_{10}H_{20}$ 140.27	19689-18-0	170.6	4-01-00-00902 0.7404^{20}	1.4243^{20}
5084	5-Decene, (*E*)-	$C_{10}H_{20}$ 140.27	7433-56-9 -73	171	4-01-00-00902 0.7401^{20}	H_2O 1; EtOH 5; eth 5; ctc 2 1.4243^{20}
5085	5-Decene, (*Z*)-	$C_{10}H_{20}$ 140.27	7433-78-5 -112	$171; 73^{20}$	3-01-00-00859 0.7445^{20}	H_2O 1; EtOH 5; eth 5; ctc 2 1.4258^{20}
5086	1-Decene, 2-bromo- 2-Bromo-1-decene	$C_{10}H_{19}Br$ 219.16	3017-67-2	$115\text{-}6^{22}$	3-01-00-00859 1.0844^{20}	1.4629^{20}
5087	2-Decene, 1-bromo- 1-Bromo-2-decene	$C_{10}H_{19}Br$ 219.16	14304-30-4	121^{17}	4-01-00-00902 1.074^{18}	lig 4 1.4716^{18}
5088	2-Decenoic acid Δ 2-Decenoic acid	$C_{10}H_{18}O_2$ 170.25	3913-85-7 12	165^{15}	4-02-00-01606 0.9280^{18}	1.4616^{20}
5089	3-Decenoic acid	$C_{10}H_{18}O_2$ 170.25	15469-77-9 18	$154\text{-}63^{11}$	4-02-00-01606 0.914^{15}	1.4510^{18}
5090	4-Decenoic acid Deconic acid telomer	$C_{10}H_{18}O_2$ 170.25	26303-90-2	149^{13}	4-02-00-01607 0.9197^{20}	bz 4; eth 4 1.4497^{20}
5091	9-Decenoic acid Caproleic acid	$C_{10}H_{18}O_2$ 170.25	14436-32-9	$158^{21}; 142^4$	4-02-00-01605 0.9238^{15}	eth 4; EtOH 4 1.4507^{15}
5092	9-Decen-1-ol Decylenic alcohol	$C_{10}H_{20}O$ 156.27	13019-22-2	236	4-01-00-02184 0.876^{25}	1.4480^{20}
5093	3-Decen-2-one Heptylidene acetone	$C_{10}H_{18}O$ 154.25	10519-33-2	$102\text{-}3^{15.3}$	4-01-00-03512 0.8473^{20}	1.4480^{20}
5094	1-Decen-3-yne	$C_{10}H_{16}$ 136.24	33622-26-3	76^{20}	4-01-00-01105 0.7873^{20}	1.4620^{20}
5095	1-Decen-4-yne	$C_{10}H_{18}$ 136.24	24948-66-1	$73\text{-}4^{22}$	3-01-00-01049 0.7880^{20}	1.445^{20}
5096	2-Decen-4-yne	$C_{10}H_{16}$ 136.24	116668-40-7	55^5	3-01-00-01049 0.7850^{25}	1.4609^{25}
5097	1-Decyne Octylacetylene	$C_{10}H_{18}$ 138.25	764-93-2 -44	174	4-01-00-01054 0.7655^{20}	H_2O 1; EtOH 3; eth 3; os 3 1.4265^{20}
5098	3-Decyne	$C_{10}H_{18}$ 138.25	2384-85-2	177	4-01-00-01055 0.7619^{25}	1.4315^{20}
5099	4-Decyne	$C_{10}H_{18}$ 138.25	2384-86-3	74.5^{19}	3-01-00-01017 0.772^{17}	1.436^{17}
5100	5-Decyne Dibutylacetylene	$C_{10}H_{18}$ 138.25	1942-46-7 -73	$177; 78.8^{25}$	4-01-00-01055 0.7690^{20}	H_2O 1; EtOH 3; eth 3 1.4331^{20}
5101	4-Decyne, 3,3-dimethyl- 3,3-Dimethyl-4-decyne	$C_{12}H_{22}$ 168.31	70732-45-5	86^{20}	3-01-00-01026 0.7731^{20}	1.4399^{20}
5102	Deltamethrin Cyano(3-phenoxyphenyl)methyl-3-(2,2-dibromoethenyl)-2,2-dimethylcyclopropanecarboxylate	$C_{22}H_{19}Br_2NO_3$ 505.21	52918-63-5 99	2869		
5103	Demeton S methyl Phosphorothioic acid, *S*-[2-(ethylthio)ethyl] *O,O*-dimethyl ester	$C_8H_{15}O_3PS_2$ 230.29	919-86-8	$89^{0.15}; 118^1$	1.207^{20}	

No.	Name Synonym	Mol. Form. Mol. Wt.	CAS RN mp/°C	Merck No. bp/°C	Beil. Ref. den/g cm^{-3}	Solubility n_D
11619	Tetradecanenitrile Myristonitrile	$C_{14}H_{27}N$ 209.38	629-63-0 19	226^{100}; 119^{1}	4-02-00-01139 0.8281^{19}	H_2O 1; EtOH 5; eth 5; ace 5 1.4392^{23}
11620	1-Tetradecanesulfonic acid Tetradecylsulfonic acid	$C_{14}H_{30}O_3S$ 278.46	7314-37-6 65		4-04-00-00066 0.9996^{25}	H_2O 4
11621	1-Tetradecanethiol	$C_{14}H_{30}S$ 230.46	2079-95-0	$176\text{-}80^{22}$	4-01-00-01867 0.8469^{20}	H_2O 1; EtOH 3; eth 3; ctc 3 1.4597^{20}
11622	Tetradecanoic acid Myristic acid	$C_{14}H_{28}O_2$ 228.38	544-63-8 53.9	6246 250^{100}	4-02-00-01126 0.8622^{54}	H_2O 1; EtOH 3; eth 2; ace 3 1.4723^{70}
11623	Tetradecanoic acid, anhydride	$C_{28}H_{54}O_3$ 438.73	626-29-9 53.4		4-02-00-01138 0.8502^{70}	eth 4; EtOH 4 1.4335^{70}
11624	Tetradecanoic acid, ethyl ester	$C_{16}H_{32}O_2$ 256.43	124-06-1 12.3	295	4-02-00-01131 0.8573^{25}	H_2O 1; EtOH 3; eth 2; ctc 3 1.4362^{20}
11625	Tetradecanoic acid, methyl ester	$C_{15}H_{30}O_2$ 242.40	124-10-7 19	295; 155^{7}	4-02-00-01131 0.8671^{20}	H_2O 1; EtOH 5; eth 5; ace 5 1.4254^{5}
11626	Tetradecanoic acid, 1-methylethyl ester Isopropyl myristate	$C_{17}H_{34}O_2$ 270.46	110-27-0	5103 193^{20}; 140^{2}	4-02-00-01132 0.8532^{20}	H_2O 1; EtOH 3; eth 3; ace 4 1.4325^{25}
11627	Tetradecanoic acid, phenylmethyl ester	$C_{21}H_{34}O_2$ 318.50	31161-71-4 20.5	229.3^{11}	2-06-00-00417 0.9293^{25}	bz 4; eth 4; EtOH 4; chl 4
11628	Tetradecanoic acid, 1,2,3-propanetriyl ester Trimyristin	$C_{45}H_{86}O_6$ 723.17	555-45-3 56.5	9638 311	4-02-00-01135 0.8848^{60}	H_2O 1; EtOH 2; eth 3; ace 3 1.4428^{60}
11629	Tetradecanoic acid, propyl ester	$C_{17}H_{34}O_2$ 270.46	14303-70-9	147^{2}	4-02-00-01132 0.8592^{20}	ace 4; bz 4; eth 4; EtOH 4 1.4356^{25}
11630	1-Tetradecanol Tetradecyl alcohol	$C_{14}H_{30}O$ 214.39	112-72-1 39.5	6248 289	4-01-00-01864 0.8236^{38}	H_2O 1; EtOH 4; eth 4; ace 4
11631	2-Tetradecanol	$C_{14}H_{30}O$ 214.39	4706-81-4 34	284	4-01-00-01867 0.8315^{20}	1.4444^{20}
11632	3-Tetradecanol	$C_{14}H_{30}O$ 214.39	1653-32-3 31.5	173^{25}; 146^{10}	4-01-00-01868 0.8098^{53}	bz 4; eth 4; EtOH 4 1.4340^{45}
11633	2-Tetradecanone Dodecylmethylketone	$C_{14}H_{28}O$ 212.38	2345-27-9 33.5	205^{100}; 134^{13}	4-01-00-03389	H_2O 1; EtOH 3; ace 3; os 3
11634	3-Tetradecanone	$C_{14}H_{28}O$ 212.38	629-23-2 34	152^{16}	4-01-00-03389	H_2O 1; EtOH 3; ace 3; os 3
11635	Tetradecanoyl chloride Myristoyl chloride	$C_{14}H_{27}ClO$ 246.82	112-64-1 -1	171^{16}	4-02-00-01138 0.9078^{25}	eth 3
11636	1-Tetradecene	$C_{14}H_{28}$ 196.38	1120-36-1 -12	233	4-01-00-00924 0.7745^{25}	H_2O 1; EtOH 4; eth 4; bz 3 1.4351^{20}
11637	4-Tetradecenoic acid Tuduic acid	$C_{14}H_{26}O_2$ 226.36	544-65-0 18.5	$185\text{-}8^{13}$	4-02-00-01626 0.9024^{20}	bz 4; peth 4 1.4559^{20}
11638	5-Tetradecenoic acid Physoteric acid	$C_{14}H_{26}O_2$ 226.36	544-66-1 20	$190\text{-}5^{15}$	3-02-00-01373 0.9046^{20}	1.4552^{20}
11639	9-Tetradecenoic acid	$C_{14}H_{26}O_2$ 226.36	13147-06-3 -4	$144^{0.6}$	4-02-00-01626 0.9018^{20}	1.4519^{20}
11640	2-Tetradecyne	$C_{14}H_{26}$ 194.36	638-60-8 6.5	252.5	0-01-00-00262 0.8000^{20}	eth 4; EtOH 4
11641	7-Tetradecyne	$C_{14}H_{26}$ 194.36	35216-11-6	144^{30}	3-01-00-01027 0.7991^{20}	eth 4; EtOH 4 1.4330^{25}
11642	2,5,8,11-Tetraoxadodecane Triglyme	$C_8H_{18}O_4$ 178.23	112-49-2 -45	9604 216	4-01-00-02401 0.986^{20}	H_2O 4; bz 4 1.4224^{20}
11643	2,4,8,10-Tetraoxaspiro[5.5]undecane	$C_7H_{12}O_4$ 160.17	126-54-5 48.3	147^{53}; 68^{1}	5-19-11-00342	H_2O 4; ace 4; eth 4; EtOH 4
11644	Tetraphenylene Tetrabenzocyclooctatetraene	$C_{24}H_{16}$ 304.39	212-74-8 233	 sub 200	4-05-00-02773	EtOH 3; eth 2; AcOEt 3; $PhNO_2$ 3
11645	Tetraphosphoric acid, hexaethyl ester Ethyl tetraphosphate	$C_{12}H_{30}O_{13}P_4$ 506.26	757-58-4 -40	150 dec	1.2917^{27}	ace 4; bz 4; EtOH 4 1.4273^{27}
11646	Tetrasiloxane, decamethyl- Decamethyltetrasiloxane	$C_{10}H_{30}O_3Si_4$ 310.69	141-62-8 -76	2843 194	4-04-00-04119 0.8536^{25}	H_2O 1; EtOH 2; bz 3; peth 3 1.3895^{20}
11647	Tetrasiloxane, 1,1,1,3,5,7,7,7-octamethyl- 1,1,1,3,5,7,7,7-Octamethyltetrasiloxane	$C_8H_{26}O_3Si_4$ 282.63	16066-09-4	170	4-04-00-04098 0.8559^{20}	1.3854^{20}
11648	Tetrasul *p*-Chlorophenyl 2,4,5-trichlorophenyl sulfide	$C_{12}H_6Cl_4S$ 324.06	2227-13-6			
11649	Tetrasulfide, bis(1,1-dimethylethyl) Di-*tert*-Butyl tetrasulfide	$C_8H_{18}S_4$ 242.49	5943-35-1 2.3	$70^{0.2}$	4-01-00-01638 1.0690^{20}	1.5660^{20}
11650	Tetratriacontane	$C_{34}H_{70}$ 478.93	14167-59-0 72.6	285.4^{3}	4-01-00-00597 0.7728^{90}	1.4296^{90}
11651	1,2,4,5-Tetrazine *sym*-Tetrazine	$C_2H_2N_4$ 82.06	290-96-0 99	sub	4-26-00-01710	H_2O 3; EtOH 3; eth 3; sulf 3
11652	1H-Tetrazole	CH_2N_4 70.05	288-94-8 157	sub	4-26-00-01652 1.4060^{20}	H_2O 2
11653	2H-Tetrazolium, 2,3,5-triphenyl-, chloride Triphenyltetrazolium chloride	$C_{19}H_{15}ClN_4$ 334.81	298-96-4 243 dec	9658	4-26-00-01774	H_2O 3; EtOH 3; eth 1; ace 3
11654	5H-Tetrazolo[1,5-a]azepine, 6,7,8,9- tetrahydro- Pentylenetetrazole	$C_6H_{10}N_4$ 138.17	54-95-5 59.5	7097 194^{12}	4-26-00-01712	H_2O 4; EtOH 4; eth 3; ace 4
11655	4-Thia-1-azabicyclo[3.2.0]heptane-2- carboxylic acid, 3,3-dimethyl-7-oxo-6- [(phenylacetyl)amino]- Penicillin G, sodium salt	$C_{16}H_{17}N_2NaO_4S$ 356.38	69-57-8	1157	4-27-00-05861	

No.	Name Synonym	Mol. Form. Mol. Wt.	CAS RN mp/°C	Merck No. bp/°C	Beil. Ref. den/g cm^{-3}	Solubility n_D
5310	Dodecanoic acid, 2,3-dihydroxypropyl ester, (±)- Glycerol, 1-laurate (*DL*)	$C_{15}H_{30}O_4$ 274.40	40738-26-9 63	 186[2]	4-02-00-01096 0.9248[97]	EtOH 2; eth 4; ace 4; bz 3 1.4350[88]
5311	Dodecanoic acid, 1,2-ethanediyl ester Ethylene glycol dilaurate	$C_{28}H_{50}O_4$ 426.68	624-04-4 56.6	4393 188[20]	4-02-00-01094	eth 4; EtOH 4
5312	Dodecanoic acid, ethyl ester Ethyl laurate	$C_{14}H_{28}O_2$ 228.38	106-33-2 -10	3774 271; 154[15]	4-02-00-01092 0.8618[20]	H_2O 1; EtOH 4; eth 5; ctc 2 1.4311[20]
5313	Dodecanoic acid, 2-(2-hydroxyethoxy)ethyl ester Diethylene glycol monolaurate	$C_{18}H_{32}O_4$ 288.43	141-20-8 17.5	3110 >270	 0.96[25]	EtOH 5; eth 5; ace 5; bz 3
5314	Dodecanoic acid, 2-methyl-	$C_{13}H_{26}O_2$ 214.35	2874-74-0 22	 153[1]	4-02-00-01121 0.890[18]	
5315	Dodecanoic acid, methyl ester Methyl laurate	$C_{13}H_{26}O_2$ 214.35	111-82-0 5.2	 267	4-02-00-01090 0.8702[20]	H_2O 1; EtOH 5; eth 5; ace 5 1.4319[20]
5316	Dodecanoic acid, 1-methylethyl ester	$C_{15}H_{30}O_2$ 242.40	10233-13-3	 196[60]; 117[2]	4-02-00-01092 0.8536[20]	eth 4; EtOH 4 1.4280[25]
5317	Dodecanoic acid, phenyl ester Phenyl laurate	$C_{18}H_{28}O_2$ 276.42	4228-00-6 24.5	 210[15]	4-06-00-00618 0.9354[30]	ace 4; eth 4; EtOH 4
5318	Dodecanoic acid, phenylmethyl ester	$C_{19}H_{30}O_2$ 290.45	140-25-0 8.5	 209-11[12]	4-06-00-02267 0.9429[25]	bz 4; eth 4; EtOH 4; peth 4 1.4812[24]
5319	Dodecanoic acid, 1,2,3-propanetriyl ester	$C_{39}H_{74}O_6$ 639.01	538-24-9		4-02-00-01098 0.8986[55]	H_2O 1; EtOH 3; eth 3; ace 4 1.4404[60]
5320	Dodecanoic acid, propyl ester Propyl laurate	$C_{15}H_{30}O_2$ 242.40	3681-78-5	 205[80]; 124[2]	4-02-00-01092 0.8600[20]	 1.4335[20]
5321	1-Dodecanol Lauryl alcohol	$C_{12}H_{26}O$ 186.34	112-53-8 24	3402 259	4-01-00-01844 0.8309[24]	H_2O 1; EtOH 3; eth 3; bz 2
5322	2-Dodecanol	$C_{12}H_{26}O$ 186.34	10203-28-8 19	 252	3-01-00-01793 0.8286[20]	 1.4400[20]
5323	3-Dodecanol	$C_{12}H_{26}O$ 186.34	10203-30-2 25	 130[15]	4-01-00-01854 0.8223[32]	
5324	6-Dodecanol	$C_{12}H_{26}O$ 186.34	6836-38-0 30	 225; 119[9]	3-01-00-01794 0.8201[40]	eth 4; EtOH 4
5325	2-Dodecanone Decyl methyl ketone	$C_{12}H_{24}O$ 184.32	6175-49-1 21	 246.5	4-01-00-03382 0.8198[20]	H_2O 1; EtOH 3; eth 3; ace 3 1.4330[20]
5326	6-Dodecanone Amyl hexyl ketone	$C_{12}H_{24}O$ 184.32	6064-27-3 10	 112[9]	4-01-00-03383	 1.4302[20]
5327	1-Dodecanone, 1-phenyl-	$C_{18}H_{28}O$ 260.42	1674-38-0 47	 201[9]; 181[5]	4-07-00-00847 0.8794[18]	H_2O 1; ace 3; ctc 2 1.4700[18]
5328	Dodecanoyl chloride	$C_{12}H_{23}ClO$ 218.77	112-16-3 -17	 145[18]	4-02-00-01103 0.9169[25]	eth 4 1.4458[20]
5329	1,3,6,10-Dodecatetraene, 3,7,11-trimethyl-, (*E,E*)- α-Famesene	$C_{15}H_{24}$ 204.36	502-61-4	3883 129-32[12]	3-01-00-01067 0.8410[20]	H_2O 1; eth 3; ace 3; peth 5 1.4836[20]
5330	2,6,10-Dodecatrienal, 3,7,11-trimethyl-	$C_{15}H_{24}O$ 220.35	19317-11-4	 172-4[14]	4-01-00-03603 0.893[18]	 1.4995
5331	1,6,10-Dodecatriene, 7,11-dimethyl-3-methylene-, (*E*)- β-Farnesene	$C_{15}H_{24}$ 204.38	18794-84-8	3884 121-2[9]	4-01-00-01133 0.8363[20]	ace 4; eth 4; chl 4 1.4899[20]
5332	1,6,10-Dodecatrien-3-ol, 3,7,11-trimethyl-, [*S*-(*Z*)]-	$C_{15}H_{26}O$ 222.37	142-50-7	6388 276; 70[0.1]	4-01-00-02336 0.8778[20]	EtOH 4; eth 3; ace 3; os 3 1.4898[20]
5333	2,6,10-Dodecatrien-1-ol, 3,7,11-trimethyl-, (*E,E*)-	$C_{15}H_{26}O$ 222.37	106-28-5	 160[10]	4-01-00-02335 0.8846[20]	H_2O 1; EtOH 4; eth 3; ace 1.4877[20]
5334	2,6,10-Dodecatrien-1-ol, 3,7,11-trimethyl-, (*Z,E*)-	$C_{15}H_{26}O$ 222.37	3790-71-4	 156[12]; 120[0.3]	4-01-00-02335 0.8908[20]	ace 4; eth 4; EtOH 4 1.4877[20]
5335	1-Dodecene	$C_{12}H_{24}$ 168.32	112-41-4 -35.2	 213.8	4-01-00-00914 0.7584[20]	H_2O 1; EtOH 3; eth 3; ace 1.4300[20]
5336	2-Dodecenedioic acid, (*E*)- Traumatic acid	$C_{12}H_{20}O_4$ 228.29	6402-36-4 165.5	9493	4-02-00-02279	eth 4; EtOH 4; chl 4
5337	2-Dodecenoic acid	$C_{12}H_{22}O_2$ 198.31	4412-16-2 17.1	 155[3]; 127[0.15]	4-02-00-01619 0.9265[20]	 1.4629[25]
5338	4-Dodecenoic acid Linderic acid	$C_{12}H_{22}O_2$ 198.31	505-92-0 1.3	 171[13]	4-02-00-01619 0.9081[15]	bz 4; eth 4; chl 4 1.4529[20]
5339	5-Dodecenoic acid	$C_{12}H_{22}O_2$ 198.31	2761-84-4 1.3	 170-2[13]	4-02-00-01619 0.9081[20]	
5340	11-Dodecenoic acid	$C_{12}H_{22}O_2$ 198.31	65423-25-8 20	 171[13]; 144[3]	4-02-00-01618 0.9014[20]	 1.4510[20]
5341	11-Dodecenoic acid, methyl ester Methyl 11-dodecenoate	$C_{13}H_{24}O_2$ 212.33	29972-79-0	 136-9[13]	4-02-00-01618 0.8789[22]	 1.4414[20]
5342	1-Dodecen-3-yne	$C_{12}H_{20}$ 164.29	74744-36-8	 78[4]	4-01-00-01112 0.7858[25]	 1.4510[25]
5343	1-Dodecyne Decylacetylene	$C_{12}H_{22}$ 166.31	765-03-7 -19	 215	4-01-00-01066 0.7788[20]	 1.4340[20]
5344	2-Dodecyne	$C_{12}H_{22}$ 166.31	629-49-2 -9	 105[15]	0-01-00-00261 0.7917[15]	 1.4828[20]
5345	3-Dodecyne	$C_{12}H_{22}$ 166.31	6790-27-8	 95[12]	3-01-00-01025 0.7871[20]	ace 4; eth 4 1.4442[20]